

# **BLUE ANGEL**

**The German Ecolabel**



**Mechanical watches, clocks and lamps**

**DE-UZ 47**

**Basic Award Criteria**

**Edition May 2012**

**Version 2**

**The Environmental Label is supported by the following four institutions:**



Federal Ministry  
for the Environment, Nature Conservation  
and Nuclear Safety

The Federal Ministry for the Environment, Nature Conservation and Nuclear Safety is the owner of the label. It regularly provides information on the decisions taken by the Environmental Label Jury.



The German Environmental Agency with its specialist department for "Ecodesign, Eco-Labeling and Environmentally friendly Procurement" acts as office of the Environmental Label Jury and develops the technical criteria of the Basic Criteria for Award of the Blue Angel.



The Environmental Label Jury is the independent, decision-making body for the Blue Angel and includes representatives from environmental and consumer associations, trade unions, industry, the trade, crafts, local authorities, academia, the media, churches, young people and the German federal states.



The RAL gGmbH is the awarding body for the Environmental Label. It organises the process for developing the relevant award criteria in independent expert hearings – which involve all relevant interest groups.

If you require further information please contact:

RAL gGmbH

**RAL UMWELT**

Fränkische Straße 7

53229 Bonn

Tel: +49 (0) 228 / 6 88 95 - 0

E-Mail: [umweltzeichen@ral.de](mailto:umweltzeichen@ral.de)

[www.blauer-engel.de](http://www.blauer-engel.de)

Version 1 (05/2012): First Edition, Expiry date: December 31, 2016

Version 2 (01/2016): Prolongation without any change for 4 years, until December 31, 2020

## Table of contents

1	Introduction.....	4
1.1	Preface .....	4
1.2	Background .....	4
2	Scope .....	4
3	Requirements .....	4
3.1	Provision of Energy.....	4
3.2	Material Requirements for the Plastics used in Housings and Housing Parts .....	5
3.3	Mechanical Lamps .....	6
4	Applicants and Parties Involved.....	6
5	Use of the Environmental Label .....	6

**This document is a translation of a German original. In case of dispute, the original document should be taken as authoritative.**

## 1 Introduction

### 1.1 Preface

In cooperation with the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, the German Environmental Agency and considering the results of the expert hearings conducted by RAL gGmbH, the Environmental Label Jury has set up these Basic Criteria for the Award of the Environmental Label. RAL gGmbH has been tasked with awarding the Environmental Label.

Upon application to RAL gGmbH and on the basis of a Contract on the Use of the Environmental Label to be concluded with RAL gGmbH, the permission to use the Environmental Label may be granted to all products, provided that they comply with the requirements as specified hereinafter.

The product must comply with all the legal requirements in the country in which it is to be marketed. The applicant shall declare that the product meets this requirement.

### 1.2 Background

Mechanical watches/clocks and lamps are perfect examples of how energy can be generated by alternative systems. Natural resources can be conserved and environmental impacts can be reduced by not using batteries. A high level of serviceability of these products is a matter of course.

Therefore, following benefits for the environment and health are stated in the explanatory box:



## 2 Scope

These Basic Criteria apply to mechanical watches, clocks and lamps<sup>1</sup>.

## 3 Requirements

The Blue Angel eco-label may be awarded to products listed under "Scope", provided that they meet the following requirements.

### 3.1 Provision of Energy

The provision of energy by means of battery, accumulator (rechargeable battery) or power pack shall not be permitted. Also, the design features of the products shall make the use of these energy sources impossible.

---

<sup>1</sup> The Environmental Label Jury may extend the Scope if other mechanical products are available to substitute the use of batteries and accumulators.

### **Compliance Verification**

*The applicant shall declare compliance with the requirements in Annex 1 to the Contract and submit the relevant product literature.*

### **3.2 Material Requirements for the Plastics used in Housings and Housing Parts**

The plastics must not contain as constituent parts any substances that are classified as

- a) carcinogenic in categories 1 or 2 according to Table 3.2 or categories 1A and 1B according to Table 3.1 of Annex VI to Regulation (EC) No 1272/2008<sup>2</sup>
- b) mutagenic in categories 1 or 2 according to Table 3.2 or categories 1A and 1B according to Table 3.1 of Annex VI to Regulation (EC) No 1272/2008
- c) reprotoxic in categories 1 or 2 according to Table 3.2 or categories 1A and 1B according to Table 3.1 of Annex VI to Regulation (EC) No 1272/2008
- d) substances that are identified as particularly alarming under the Chemicals Regulation REACH (1907/2006/EC) and which have been incorporated into the list drawn up in accordance with Article 59 (1) of the REACH Regulation (so-called "list of candidates"), as amended at the time of application<sup>3</sup>.

Halogenated polymers shall not be permitted. Neither may halogenated organic compounds be added as flame retardants. Moreover, no flame retardants may be added which are labelled with Risk Phrase R50/53 or Hazard Phrase H410 pursuant to Part 3 of Annex VI to EC Regulation 1272/2008.

The following shall be exempt from this rule:

- process-related, technically unavoidable impurities;
- fluoroorganic additives (as, for example, anti-dripping agents) used to improve the physical properties of plastics, provided that they do not exceed 0.5 weight percent;
- plastic parts weighing less than 25 grams.

### **Compliance Verification**

*The applicant shall declare compliance with the requirements in Annex 1 to the Contract. As regards the substances to be banned from the plastics for housings and housing parts, the applicant shall request the plastic manufacturers or suppliers to send a written declaration to*

---

<sup>2</sup> Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (short: GHS Regulation). [http://www.reach-info.de/ghs\\_verordnung.htm](http://www.reach-info.de/ghs_verordnung.htm), as amended. Annex VI, Part 3, includes the harmonized classification and labelling of certain hazardous substances. Table 3.1 lists classifications and labelling according to the new system using H Phrases; Table 3.2 lists classifications and labelling according to the old system. (List of harmonized classifications and labelling for hazardous substances in Annex I to Directive 67/548/EWG) using R Phrases.

The GHS Regulation (Globally Harmonized System), that has come into force on January 20, 2009, replaces the old Directives 67/548/EEC (Dangerous Substances Directive) and 1999/45/EC (Dangerous Preparations Directive). According to the said regulation, substances are classified, labelled and packed until December 1, 2010 according to Directive 67/548/EEC while mixtures (formerly preparations) are classified, labelled and packed until June 1, 2015 according to Directive 1999/45/EC. Thereafter, the GHS Regulation shall be applied. The new indications of danger (H Phrases) as well as the hitherto applicable R Phrases (risk phrases) shall be indicated for substances until the 1st of June 2015.

<sup>3</sup> For the list of candidates, as amended, please go to:

[http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

*RAL gGmbH stating that these substances have not been added. Also, the applicant undertakes to request the manufacturers or suppliers of housing plastics to confidentially report the chemical designation of the flame retardants used (CAS No.) to RAL gGmbH.*

### **3.3 Mechanical Lamps**

Mechanical lamps shall have a minimum illuminance of 1000 lux (at a distance of 1 m) after 30 seconds of mechanical charging according to instructions. The illuminance shall not fall below 70 percent of the initial value after 10 minutes of burning.

#### ***Compliance Verification***

*The applicant shall declare compliance with the requirements in Annex 1 to the Contract. The initial value shall be determined during the first minute as an average value from 6 illuminance measurements at a distance of 1 m along the main axis. The protocol on the illuminance measurement shall be attached as Annex 3 to the Contract. The applicant shall submit the relevant product literature.*

## **4 Applicants and Parties Involved**

Manufacturers or distributors of final products according to Paragraph 2 shall be eligible for application.

Parties involved in the award process are:

- RAL gGmbH to award the Blue Angel Environmental Label,
- the federal state being home to the applicant's production site,
- Umweltbundesamt (German Environmental Agency) which after the signing of the contract receives all data and documents submitted in applications for the Blue Angel in order to be able to further develop the Basic Award Criteria.

## **5 Use of the Environmental Label**

The use of the Environmental Label by the applicant is governed by a contract on the use of the Environmental Label concluded with RAL gGmbH.

Within the scope of such contract, the applicant undertakes to comply with the requirements under Paragraph 3 while using the Environmental Label.

Contracts on the Use of the Environmental Label are concluded to fix the terms for the certification of products under Paragraph 2. Such contracts shall run until December 31, 2020. They shall be extended by periods of one year each, unless terminated in writing by March 31, 2020 or March 31 of the respective year of extension.

After the expiry of the contract, the Environmental Label may neither be used for labelling nor for advertising purposes. This regulation shall not affect products being still in the market.

The applicant (manufacturer) shall be entitled to apply to RAL gGmbH for an extension of the right to use the ecolabel on the product entitled to the label if it is to be marketed under another brand/trade name and/or other marketing organisations.

The Contract on the Use of the Environmental Label shall specify:

- Applicant (manufacturer/distributor)
- Brand/trade name, product description
- Distributor (label user), i.e. the above-mentioned marketing organisations.

© 2016 RAL gGmbH, Bonn